

- 1** James is organising his book collection on a new bookshelf.
Each book takes up an average of 3.5 cm of space on the shelf.
If James has 24 books, what is the minimum length the bookshelf needs to be, in metres, to fit all his books?
- A 0.84 m B 0.58 m C 1.2 m D 0.42 m

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- 2** A swimming pool is 50 metres long.
Sarah swam a total distance of 800 metres in the pool.
How many lengths of the pool did she swim?
- A 8 B 16 C 40 D 160

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- 3** In a school, there are 1 266 students.
The number of students in the junior school is one third of the total number of students.
How many students are there in the senior school?
- A 844 B 633 C 422 D 566

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- 4** In a pentagon, the measures of four of the angles are 90° , 110° , 90° , and 140° .
What could be the shape of this pentagon?
- A Regular pentagon B Irregular pentagon C Equilateral pentagon D Isosceles pentagon

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- 5** Farmer John has a flock of sheep. He counts them and gets a total of 50.
The next day, he rounds up his sheep and counts them again, but this time he accidentally counts each sheep 10 times.
What could Farmer John have done to the second day's count to get the actual number of sheep in his flock?
- A Multiply the second count by 10 B Divide the second count by 100 C Divide the second count by 10 D Subtract 10 from the second count

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6 In a calculation involving multiplication and division, Samantha needs to determine which value can be used in both blank spaces to make the equation true.

$$2\,450 \div \underline{\quad} = 24.5 \times \underline{\quad}$$

Which of the following options will make Samantha's calculation correct when placed in both blank spaces?

- A 10 B 100 C 0.01 D 1 000

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7 Six friends go to a restaurant for dinner.

The total bill, including tip, comes to £132.

However, one of the friends forgot their wallet, so the remaining five friends split the bill equally between them.

How much did each of the five paying friends contribute towards the bill?

- A £22 B £26.40 C £24 D £27.50

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8 Samantha cycled a total of 120 kilometres over 4 days, maintaining a constant speed each day.

What distance did Samantha cover in a single day?

- A 30 kilometres B 15 kilometres C 24 kilometres D 60 kilometres

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9 Which of the following 3D shapes has faces that are all at right angles to each other?

- A Cube B Tetrahedron C Octahedron D Dodecahedron

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10 In a triangle, two of the interior angles add up to 90° .

Which of the following statements must be true?

- A The triangle is right-angled. B The remaining angle is acute. C The triangle is invalid. D The triangle is an equilateral triangle.

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